ATTACHMENT J1

Capital MAP (ANG) Electric Distribution System

TABLE OF CONTENTS

CAPITAL MAP (ANG) ELECTRIC DISTRIBUTION SYSTEM	1
J1 CAPITAL MAP (ANG) ELECTRIC DISTRIBUTION SYSTEM	2
J1.1 CAPITAL MAP (ANG) OVERVIEW	2
J1.2 ELECTRIC DISTRIBUTION SYSTEM DESCRIPTION	2
J1.2.1 Electric Distribution System Fixed Equipment Inventory	
J1.2.1.1 Description	
J1.2.1.2 Inventory	
J1.2.2 Electric Distribution System Non-Fixed Equipment and Specialized Tools	
J1.2.3 Electric Distribution System Manuals, Drawings, and Records	
J1.3 SPECIFIC SERVICE REQUIREMENTS	
J1.4 CURRENT SERVICE ARRANGEMENT	
J1.5 SECONDARY METERING	
J1.5.1 Existing Secondary Meters	
J1.5.2 Required New Secondary Meters	
J1.6 MONTHLY SUBMITTALS	
J1.7 ENERGY SAVING PROJECTS	
J1.8 SERVICE AREA	
J1.9 OFF-INSTALLATION SITES	
J1.10 SPECIFIC TRANSITION REQUIREMENTS	
J1.11 GOVERNMENT RECOGNIZED SYSTEM DEFICIENCIES	8
List of Tables	
Fixed Inventory	3
Spare Parts	
Specialized Vehicles and Tools	
Manuals, Drawings, and Records	
Existing Secondary Meters	
New Secondary Meters	
Service Connections and Disconnections	
System Deficiencies	

J1 Capital MAP (ANG) Electric Distribution System

J1.1 Capital MAP (ANG) Overview

The 183rd Fighter Wing (FW) of the Illinois Air National Guard occupies 91 acres of leased land on the Capital Municipal Airport (MAP), located approximately three miles northwest of downtown Springfield, Illinois. The mission of the 183rd FW is to provide 15 combat ready aircraft, pilots, and required support personnel capable of global deployment to perform tactical, general-purpose warfare as directed by major command authority. The unit currently flies the F-16 Falcon. The 183rd FW occupies 2 administrative and 31industrial buildings totaling approximately 267,600 square feet with 321 full-time personnel. A unit training drill is conducted once a month and results in a surge of up to a total of 1,121 personnel.

J1.2 Electric Distribution System Description

J1.2.1 Electric Distribution System Fixed Equipment Inventory

The Capital MAP (ANG) electric distribution system consists of all appurtenances physically connected to the distribution system from the point in which the distribution system enters the Installation and Government ownership currently starts to the point of demarcation, defined by the Right of Way. The system may include, but is not limited to, transformers, circuits, ductbanks, lightning arrestors, fuses and switches. The actual inventory of items sold will be in the bill of sale at the time the system is transferred. The following description and inventory is included to provide the Contractor with a general understanding of the size and configuration of the distribution system. The Government makes no representation that the inventory is accurate. The Contractor shall base its proposal on site inspections, information in the technical library, other pertinent information, and to a lesser degree the following description and inventory. Under no circumstances shall the Contractor be entitled to any service charge adjustments based on the accuracy of the following description and inventory.

Specifically excluded from the electric distribution system privatization are:

- ?? Airfield Lighting.
- ?? Parking Lot Lights.
- ?? Street Lights.

J1.2.1.1 Description

Power is provided by City Water Light and Power Company (CWLP). Power enters the base at two locations and is metered at one location. It is delivered and distributed at 12.7 kV through a looped configuration. The primary distribution system consists of approximately 8,300 linear feet of 3-phase 3-wire and 4,800 linear feet of ground wire underground circuits rated at 15 kV. The underground circuits are in ductbanks buried at an average depth of 4 feet and are not marked with tracer wire. Multiple branches feed 22 three phase pad mounted transformers ranging from 75 to 750 kVA. The system includes eight 6-feet deep by 5-feet square utility vaults, 33 lightning arresters, 11 fuses, three

2-way underground switches and eight 4-way underground switches. Although peak demand is unknown, base personnel indicate the capacity of the current system is adequate for present and future needs.

J1.2.1.2 Inventory

Table 1 provides a general listing of the major electric distribution system fixed assets for the Capital MAP (ANG) electric distribution system included in the sale.

TABLE 1Fixed Inventory
Electric Distribution System Capital MAP (ANG)

Item	Size	Quantity	Unit	Approximate Year of Construction
Ductbanks				
Four 4-inch conduits		4794	LF	1974
Underground Circuits	AWG			
3ph, 3 wire, 15 kV, VCLC	#6	1,267	LF	1949
3ph, 3 wire, 15 kV, BC Ground	#2	4,794	LF	1974
3ph, 3 wire, 15 kV, EPR/cc Ground	#1/0	348	LF	1974
3ph, 3 wire, 15 kV, XLP/cc Ground	#1/0	298	LF	1996
3ph, 3 wire, 15 kV, XLP/cc Ground	#1/0	437	LF	1966
3ph, 3 wire, 15 kV, XLP/cc Ground	#1/0	712	LF	1990
3ph, 3 wire, 15 kV, XLP/cc Ground	#1/0	275	LF	1988
3ph, 3 wire, 15 kV, XLP/cc Ground	#1/0	196	LF	2000
1 wire, 5 kV, BC Ground	#4	4,794	LF	1974
Transformers	Nom kVA			
3-phase, oil filled, pad mounted	75	3	EA	1974
3-phase, oil filled, pad mounted	112.5	1	EA	1980
3-phase, oil filled, pad mounted	150	3	EA	1974
3-phase, oil filled, pad mounted	150	1	EA	1988
3-phase, oil filled, pad mounted	150	1	EA	1959
3-phase, oil filled, pad mounted	225	1	EA	1977
3-phase, oil filled, pad mounted	225	1	EA	1990
3-phase, oil filled, pad mounted	300	1	EA	1990
3-phase, oil filled, pad mounted	300	1	EA	1966
3-phase, oil filled, pad mounted	300	1	EA	2000
3-phase, oil filled, pad mounted	300	1	EA	1987

Item	Size	Quantity	Unit	Approximate Year of Construction
3-phase, oil filled, pad mounted	500	1	EA	1965
3-phase, oil filled, pad mounted	500	2	EA	1975
3-phase, oil filled, pad mounted	500	1	EA	1987
3-phase, oil filled, pad mounted	500	1	EA	1990
3-phase, oil filled, pad mounted	750	2	EA	1975
Lightning Arrestors				
On Transformer		3	EA	1974
On Transformer		1	EA	1980
On Transformer		3	EA	1974
On Transformer		1	EA	1988
On Transformer		1	EA	1959
On Transformer		1	EA	1977
On Transformer		1	EA	1990
On Transformer		1	EA	1990
On Transformer		1	EA	1966
On Transformer		1	EA	2000
On Transformer		1	EA	1987
On Transformer		1	EA	1965
On Transformer		2	EA	1975
On Transformer		1	EA	1987
On Transformer		1	EA	1990
On Transformer		2	EA	1975
On Switch		3	EA	1975
On Switch		7	EA	1975
On Switch		1	EA	1983
Switches	Type			
underground	2-way	3	EA	1975
underground	4-way	7	EA	1975
underground	4-way	1	EA	1983
Fuses				
On Switch		3	EA	1975
On Switch		7	EA	1975

Item	Size	Quantity	Unit	Approximate Year of Construction
On Switch		1	EA	1983
Vaults	Size			
Brick	6 ft x 5 ft x 5 ft	2	EA	1949
Concrete	6 ft x 5 ft x 5 ft	2	EA	1949
Concrete	6 ft x 5 ft x 5 ft	4	EA	1974

Notes:

AWG = American Wire Gauge
EA = each

LF = linear feet

Nom kVA = nominal kilovolt -amperes

ph - phaseKV = Kilovolt

FT = feet

CC- Concentric ground BC = Bare Copper

VCLC = Varnished Cambric Lead Covered

EPR = Ethylenepropylene Rubber

XLP = Cross linked polyethylene

J1.2.2 Electric Distribution System Non-Fixed Equipment and Specialized **Tools**

Table 2 lists other ancillary equipment (spare parts) and **Table 3** lists specialized vehicles and tools included in the purchase. Offerors shall field verify all equipment, vehicles, and tools prior to submitting a bid. Offerors shall make their own determination of the adequacy of all equipment, vehicles, and tools.

TABLE 2

Spare Parts

Electric Distribution System Capital MAP (ANG)

Qty	Item	Make/Model	Description	Remarks
None				

TABLE 3

Specialized Vehicles and Tools

Electric Distribution System Capital MAP (ANG)

Description	Quantity	Location	Maker
None			

J1.2.3 Electric Distribution System Manuals, Drawings, and Records

Table 4 lists the manuals, drawings, and records that will be transferred with the system.

TABLE 4

Manuals, Drawings, and Records Electric Distribution System Capital MAP (ANG)

Qty	Description	Remarks
1	Base Electrical Distribution Map	AutoCAD Release Version 2000

J1.3 Specific Service Requirements

The service requirements for the Capital MAP (ANG) electric distribution system are as defined in the Section C Description/Specifications/Work Statement. The following requirements are specific to the Capital MAP (ANG) electric distribution system and are in addition to those found in Section C. If there is a conflict between requirements described below and Section C, the requirements listed below take precedence over those found in Section C.

?? Although the duct banks are being turned over to the successful offeror, those ducts not currently used for electrical lines will be reserved for the exclusive use of the government. Additional ducts may be made available to the successful offeror at the discretion of the Contracting Officer.

J1.4 Current Service Arrangement

- ?? Current Provider: City Water Light and Power Company (CWLP)
- ?? Average Annual Usage (2000): 3,946.7 MWH
- ?? **Maximum Monthly Usage:** 391.6 MWH (September)
- ?? **Minimum Monthly Usage:** 243.2 MWH (October)
- ?? Peak demand: Unknown

J1.5 Secondary Metering

J1.5.1 Existing Secondary Meters

Table 5 provides a listing of the existing (at the time of contract award) secondary meters that will be transferred to the Contractor. The Contractor shall provide meter readings for all secondary meters IAW Paragraph C.3 and J1.6 below.

TABLE 5

Existing Secondary Meters Electric Distribution System Capital MAP (ANG)

Meter Location	Meter Description
None	

J1.5.2 Required New Secondary Meters

The Contractor shall install and calibrate new secondary meters as listed in **Table 6**. New secondary meters shall be installed IAW Paragraph C.13 Transition Plan. After installation, the Contractor shall maintain and read these meters IAW Paragraphs C.3 and J1.6 below.

TABLE 6

New Secondary Meters Electric Distribution System Capital MAP (ANG)

Meter Location	Meter Description
None	

J1.6 Monthly Submittals

The Contractor shall provide the Government monthly submittals for the following:

- 1. Invoice (IAW G.2). The Contractor's monthly invoice shall be presented in a format proposed by the Contractor and accepted by the Contracting Officer. Invoices shall be submitted by the 25th of each month for the previous month. Invoices shall be submitted to the person identified at time of contract award.
- 2. Outage Report. The Contractor's monthly outage report will be prepared in the format proposed by the Contractor and accepted by the Contracting Officer. Outage reports shall be submitted by the 25th of each month for the previous month. Outage reports shall be submitted to the person identified at time of contract award.
- 3. Meter Reading Report. The monthly meter reading report shall show the current and previous month readings for all secondary meters (if any). The Contractor's monthly meter reading report will be prepared in the format proposed by the Contractor and accepted by the Contracting Officer. Meter reading reports shall be submitted by the 15th of each month for the previous month. Meter reading reports shall be submitted to the person identified at time of contract award.
- 4. System Efficiency Report. If required by Paragraph C.3, the Contractor shall submit a system efficiency report in a format proposed by the Contractor and accepted by the Contracting Officer. System efficiency reports shall be submitted by the 25th of each month for the previous month. System efficiency reports shall be submitted to the person identified at time of contract award.

J1.7 Energy Saving Projects

IAW Paragraph C.3 Requirement, the following projects have been implemented on the distribution system by the Government for energy conservation purposes: None.

J1.8 Service Area

IAW Paragraph C.4 Service Area, the service area is defined as all areas within the Capital MAP (ANG) boundaries.

J1.9 Off-Installation Sites

No off-installation sites are included in the sale of the Capital MAP (ANG) electric distribution system.

J1.10 Specific Transition Requirements

IAW Paragraph C.13 Transition Plan, **Table 7** provides a listing of service connections and disconnections required upon transfer.

TABLE 7

Service Connections and Disconnections Electric Distribution System Capital MAP (ANG)

Location	Description
None	

J1.11 Government Recognized System Deficiencies

Table 8 provides a listing of system improvements that the Government has planned. The Government recognizes these improvement projects as representing current deficiencies associated with the Capital MAP (ANG) electric distribution system. If the system is sold, the Government will not accomplish these planned improvements. The Contractor shall make a determination as to its actual need to accomplish and the timing of any and all such planned improvements. Capital upgrade projects shall be proposed through the Capital Upgrades and Renewals and Replacements Plan process and will be recovered through Schedule L-3. Renewal and replacement projects will be recovered through Sub-CLIN AB.

TABLE 8

System Deficiencies

Electric Distribution System Capital MAP (ANG)

Project Location	Project Description
None	